

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



10/519906



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
WO 2004/005814 A1

(51) International Patent Classification<sup>7</sup>: F25D 11/02,  
17/06

(21) International Application Number:  
PCT/BR2003/000084

(22) International Filing Date: 1 July 2003 (01.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PI 0202820-4 4 July 2002 (04.07.2002) BR

(71) Applicant (for all designated States except US): MULTI-  
BRÁS S.A. ELETRODOMÉSTICOS [BR/BR]; Avenida  
das Nações Unidas, 12995, 32º andar, 04578-000 São Paulo  
- SP (BR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHMID, Alexan-  
dre, Cury [BR/BR]; Rua Almirante Tamandaré, 157 -  
apt.102, 89204-140 Joinville - SC (BR). CARGNIN,  
Adriano [BR/BR]; Rua Victor Konder, 906, 89227-240

Joinville - SC (BR). MARQUES, Marco, Eduardo  
[BR/BR]; Rua Orestes Guimarães, 421 - apt. 501,  
89204-060 Joinville - SC (BR). RODRIGUES JÚNIOR,  
Rogério [BR/BR]; Rua Bento Gonçalves, 225 - apt. 702,  
89261-110 Joinville -SC (BR).

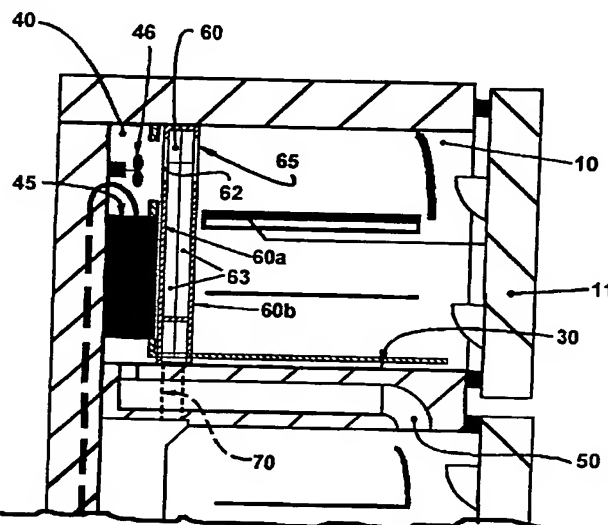
(74) Agents: ARNAUD, Antonio, M P et al.; Rua José Bonifá-  
cio, 93 - 9th floor, 01003-901 São Paulo - SP (BR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,  
DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,  
HR, HU, ID, IL, IN, IS, JP, KB, KG, KP, KR, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,  
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,  
US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AIR DISTRIBUTION SYSTEM FOR COMBINED REFRIGERATORS



(57) Abstract: An air distribution system for combined refrigerators of the type that comprises: a freezing compartment (10) and a refrigerating compartment (20); an air-cooling compartment (40) lodging at least one evaporator (45); a distributing duct (60) having a rear window (62) opened to the air-cooling compartment (40), at least one front opening (65) communicating with the freezing compartment (10) and one end opening (64) maintained in communication with the refrigerating compartment (20); and at least one fan (46, 47) producing a forced airflow from the air-cooling compartment (40) to the freezing compartment (10) and to the refrigerating compartment (20), said distributing duct (60) carrying a conduct (63), having a first end coupled to the end opening (64) of the distributing duct (60), and a second end selectively placed in fluid communication with one of the parts defined by the distributing duct (60) and by the air-cooling compartment (40).